

SZEMC-TRF-01 Rev A/1 Report No.: SZCR250700307902

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TEST REPORT

Application No.: SZCR2507003079MO

Applicant: Telit Communications S.p.A.

Address of Applicant: Via Stazione di Prosecco 5/b, 34010, Sgonico - Trieste, Italy

Manufacturer: Telit Communications S.p.A.

Address of Manufacturer: Via Stazione di Prosecco 5/b, 34010, Sgonico – Trieste, Italy

FUYU PRECISION COMPONENT CO., LTD Factory:

Address of Factory: Lot M1. Lot F and Lot T1 Quang Chau Industrial Zone, Van Trung Ward.

Viet Yen Town, Bac Giang Province, Vietnam

Equipment Under Test (EUT):

EUT Name: Radio Module Model No.: LE310Q1-WW Trade Mark: **Telit Cinterion** FCC ID: RI7LE310Q1WW 47 CFR Part 2 Standard(s): 47 CFR Part 22

47 CFR Part 24 47 CFR Part 27 47 CFR Part 90

Date of Receipt: 2025-07-16

2025-07-18 to 2025-07-22 Date of Test:

Date of Issue: 2025-07-31

Pass Test Result:

Keny Xu **EMC Laboratory Manager**



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2025-07-31		Original		

Authorized for issue by:			
	Calvin Weng		
	Calvin Weng/Project Engineer	_	
	Exic Fu		
	Eric Fu/Reviewer	-	



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	\$2.1046 \$22.913 \$24.232 \$27.50(b) \$27.50(c) \$27.50(d) \$27.50(h) \$27.1507(4) \$90.635 \$90.542(a)	ERP≤ 7W(LTE Band 5,26b) EIRP≤ 2W(LTE Band 2,25) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12,71) EIRP≤ 1W(LTE Band 4, 66) EIRP≤ 2W(LTE Band 7,38,41) ERP≤ 3W(LTE Band 8) ERP≤ 100W(LTE Band 26a) ERP≤ 30W(LTE Band 14)	PASS
Peak-Average Ratio	\$22.913 \$24.232 \$27.50(a) \$27.50(d) \$27.1507(d)	≤13dB	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	\$2.1051 \$22.917 \$24.238 \$27.50(g) \$27.50(h) \$27.50(m) \$27.53(c) \$27.1509 \$90.543(e) \$90.691	≤ -13dBm (LTE Band5,26b) ≤ -13dBm (LTE Band2,25) ≤ -13dBm (LTE Band12,71) ≤ -13dBm (LTE Band4,66) Refer to clause 6.4 for LTE Band7,38,41 Refer to clause 6.4 for LTE Band13 ≤ -13dBm (LTE Band8) Refer to clause 6.4 for LTE Band14 Refer to clause 6.4 for LTE Band26a	PASS
Spurious emissions at antenna terminals	\$2.1051 \$22.917 \$24.238 \$27.50(g) \$27.50(m) \$27.50(m) \$27.53(c) \$27.1509 \$90.543(e) \$90.691	≤ -13dBm (LTE Band5,26b) ≤ -13dBm (LTE Band2,25) ≤ -13dBm (LTE Band12,71) ≤ -13dBm (LTE Band4,66) Refer to clause 6.5 for LTE Band7,38,41 Refer to clause 6.5 for LTE Band13 ≤ -13dBm (LTE Band8) Refer to clause 6.5 for LTE Band14 Refer to clause 6.5 for LTE Band26a	PASS



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Field strength of spurious radiation	\$2.1051 \$22.917 \$24.238 \$27.50(g) \$27.50(h) \$27.50(m) \$27.53(c) \$27.1509 \$90.543(e) \$90.691	 ≤ -13dBm (LTE Band5,26b) ≤ -13dBm (LTE Band2,25) ≤ -13dBm (LTE Band12,71) ≤ -13dBm (LTE Band4,66) Refer to clause 6.6 for LTE Band7,38,41 Refer to clause 6.6 for LTE Band13 ≤ -13dBm (LTE Band8) Refer to clause 6.6 for LTE Band14 Refer to clause 6.6 for LTE Band26a 	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54 §90.213	≤ ±2.5ppm.	PASS



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General Information

4.1 Details of E.U.T.

Power supply:	DC3.8V	
Sample Type:	Mobile product	
LTE Operation Frequency Band:	LTE B2/4/5/7/8/12/13/14/25/26/38/41/66/71	
Modulation Type:	QPSK, 16QAM	
LTE Power Class:	Level 3	
Antenna Type:	External Antenna	
	LTE B2: 2.17dBi, B4: 2.17dBi, B5: 5.17dBi, B7: 2.17dBi,	
Antenna Gain:	B8: 5.17dBi, B12: 3.17dBi, B13: 3.17dBi, B14: 3.17dBi,	
Antenna Gain.	B25: 2.17dBi, B26: 5.17dBi, B38: 2.17dBi, B41: 2.17dBi,	
	B66: 2.17dBi, B71: 3.17dBi	

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4.2 Test Frequency

Test mode: Bandwidth (MHz)		Nominal	RF Channel		
1.4 1850.7 1880 1909.3 3 1851.5 1880 1909.5 5 1852.5 1880 1907.5 1852.5 1880 1907.5 1852.5 1880 1905.0 15 1857.5 1880 1902.5 20 1860.0 1880 1900.0 1800.0 1900.0 1880 1900.0 1880 1900.0 1800.0 1900.0 1800.0 1900.0 1800.0 1900	Test mode:		Low (L)	Middle (M)	High (H)
Test mode: 3		(IVIHZ)	MHz	MHz	MHz
Test mode: S		1.4	1850.7	1880	1909.3
Test mode: 10		3	1851.5	1880	1908.5
10	1.TE EDD D 10	5	1852.5	1880	1907.5
Test mode: Nominal Bandwidth (MHz)	LIE FDD Band 2	10	1855.0	1880	1905.0
Nominal Bandwidth (MHz)		15	1857.5	1880	1902.5
Test mode: Bandwidth (MHz) Low (L) Middle (M) High (H) LTE FDD Band 4 1.4 1710.7 1732.5 1754.3 3 1711.5 1732.5 1753.5 5 1712.5 1732.5 1750.0 15 1717.5 1732.5 1747.5 20 1720.0 1732.5 1745.0 Nominal Bandwidth (MHz) RF Channel Low (L) Middle (M) High (H) MHz LTE FDD Band 5 826.5 836.5 847.5 5 826.5 836.5 844.0 Nominal Bandwidth (MHz) RF Channel Low (L) Middle (M) High (H) MHz Low (L) Middle (M) High (H) MHz Low (L) Middle (M) High (H) MHz MHz L		20	1860.0	1880	1900.0
Columbia				RF Channel	
Test mode:	Test mode:		Low (L)	Middle (M)	High (H)
Test mode: S		(IVIHZ)	MHz	MHz	MHz
LTE FDD Band 4 10		1.4	1710.7	1732.5	1754.3
Test mode: 10		3	1711.5	1732.5	1753.5
Test mode: 10	LTC CDD Dand 4	5	1712.5	1732.5	1752.5
Test mode: Nominal Bandwidth (MHz)	LIE FDD Band 4	10	1715.0	1732.5	1750.0
Nominal Bandwidth (MHz)		15	1717.5	1732.5	1747.5
Test mode: Bandwidth (MHz) Low (L) Middle (M) High (H) MHz MHz 1.4 824.7 836.5 848.3 3 825.5 836.5 847.5 5 826.5 836.5 846.5 Nominal Bandwidth (MHz) RF Channel Low (L) Middle (M) High (H) MHz MHz LTE FDD Band 7 5 2502.5 2535.0 2565.0 LTE FDD Band 7 10 2505.0 2535.0 2565.0		20	1720.0	1732.5	1745.0
Company Comp			RF Channel		
Test mode: MHz M	Test mode:		Low (L)	Middle (M)	High (H)
Test mode: 3 825.5 836.5 847.5			MHz	MHz	MHz
LTE FDD Band 5 5 826.5 836.5 846.5 Test mode: Nominal Bandwidth (MHz) RF Channel LTE FDD Band 7 5 2502.5 2535.0 2567.5 LTE FDD Band 7 10 2505.0 2535.0 2565.0 LTE FDD Band 7 15 2507.5 2535.0 2565.0		1.4	824.7	836.5	848.3
5 826.5 836.5 846.5 10 829.0 836.5 844.0 RF Channel Bandwidth (MHz) Low (L) Middle (M) High (H) MHz MHz LTE FDD Band 7 5 2502.5 2535.0 2567.5 10 2505.0 2535.0 2565.0 15 2507.5 2535.0 2562.5	LTE EDD Bond 5	3	825.5	836.5	847.5
Test mode: Nominal Bandwidth (MHz) RF Channel Low (L) Middle (M) High (H) MHz MHz MHz 5 2502.5 2535.0 2567.5 10 2505.0 2535.0 2565.0 15 2507.5 2535.0 2562.5	LIE FDD Ballu 5	5	826.5	836.5	846.5
Test mode: Bandwidth (MHz) Low (L) Middle (M) High (H) LTE FDD Band 7 5 2502.5 2535.0 2567.5 10 2505.0 2535.0 2565.0 15 2507.5 2535.0 2562.5		10	829.0	836.5	844.0
Cow (L) Middle (W) High (H)			RF Channel		
MHZ MHZ MHZ 5 2502.5 2535.0 2567.5 10 2505.0 2535.0 2565.0 15 2507.5 2535.0 2562.5	Test mode:		Low (L)	Middle (M)	High (H)
LTE FDD Band 7 10 2505.0 2535.0 2565.0 15 2507.5 2535.0 2562.5		(IVIT12)	MHz	MHz	MHz
LTE FDD Band 7 15 2507.5 2535.0 2562.5		5	2502.5	2535.0	2567.5
15 2507.5 2535.0 2562.5	LTE EDD Band 7	10	2505.0	2535.0	2565.0
20 2510.0 2535.0 2560.0	LIE FUU DANG /	15	2507.5	2535.0	2562.5
		20	2510.0	2535.0	2560.0



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	Nominal		RF Channel		
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
LTE Band 8	1.4	898.2	899.0	899.8	
LIE Danu o	3	/	899.0	/	
	Nominal		RF Channel		
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
	1.4	699.7	707.5	715.3	
LTE FDD Band 12	3	700.5	707.5	714.5	
LIEFDD Ballu 12	5	701.5	707.5	713.5	
	10	704.0	707.5	711.0	
	Nominal		RF Channel		
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)	
		MHz	MHz	MHz	
LTE FDD Band 13	5	779.5	782.0	784.5	
ETET DD Band 13	10	/	782.0	/	
	Nominal Bandwidth (MHz)	RF Channel			
Test mode:		Low (L)	Middle (M)	High (H)	
		MHz	MHz	MHz	
LTE FDD Band 14	5	790.5	793.0	795.5	
ETET DD Band 14	10	/	793.0	1	
	Nominal		RF Channel		
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)	
	(1411 12)	MHz	MHz	MHz	
	1.4	1850.7	1882.5	1914.3	
	3	1851.5	1882.5	1913.5	
LTE FDD Band 25	5	1852.5	1882.5	1912.5	
	10	1855.0	1882.5	1910.0	
	15	1857.5	1882.5	1907.5	
	20	1860.0	1882.5	1905.0	



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	Nominal		RF Channel		
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
	1.4	814.7	819.0	823.3	
LTE Band 26a	3	815.5	819.0	822.5	
LIE Band 20a	5	816.5	819.0	822.2	
	10	/	819.0	1	
	Nominal		RF Channel		
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)	
	(MHz)	MHz	MHz	MHz	
	1.4	824.7	836.5	848.3	
LTE FDD Band	3	825.5	836.5	847.5	
26b	5	826.5	836.5	846.5	
	10	829.0	836.5	844.0	
	Nominal	RF Channel			
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)	
	(1411 12)	MHz	MHz	MHz	
	5	2572.5	2595.0	2617.5	
LTE FDD Band 38	10	2575.0	2595.0	2615.0	
LILI DD Balla 30	15	2577.5	2595.0	2612.5	
	20	2580.0	2595.0	2610.0	
	Nominal	RF Channel			
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)	
	(1411 12)	MHz	MHz	MHz	
	5	2498.5	2593.0	2687.5	
LTE FDD Band 41	10	2501.0	2593.0	2685.0	
LILIDD Dalla 41	15	2503.5	2593.0	2682.5	
	20	2506.0	2593.0	2680.0	



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	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	1710.7	1745.0	1779.3
	3	1711.5	1745.0	1778.5
LTE FDD Band 66	5	1712.5	1745.0	1777.5
LIE FUU Band 00	10	1715.0	1745.0	1775.0
	15	1717.5	1745.0	1772.5
	20	1720.0	1745.0	1770.0
	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	5	665.5	680.5	695.5
LTE FDD Band 71	10	668.0	680.5	693.0
LIE FDD Ballu / I	15	670.5	680.5	690.5
	20	673.0	680.5	688.0



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4.3 Test Environment

Environment Parameter	Selected Values During Tests				
	TL	-30°C			
Temperature:	TN	+20°C			
	TH	+50°C			
	VL	3.4 Vdc			
Voltage:	VN	3.8 Vdc			
	VH	4.2 Vdc			

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage TL= lower extreme test temperature

TN= normal temperature

TH= upper extreme test temperature

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Debug board	Telit Communications S.p.A.	E54926	

4.5 Measurement Uncertainty

No.	ltem	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10 ⁻⁸
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB
5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Padiated Spurious emission test	± 3.1dB (Below 1GHz)
1	Radiated Spurious emission test	± 4.4dB (Above 1GHz)
8	Temperature test	± 1°C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA), Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 **Equipment List**

RF conducted test						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date	
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2025-03-06	2026-03-05	
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2025-03-03	2026-03-02	
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A	
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	N/A	N/A	
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-14	2025-03-03	2026-03-02	
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25	
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2025-03-05	2026-03-04	
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04	

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2023-09-23	2025-09-22
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022-08-07	2025-08-06
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2024-09-14	2025-09-13
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2023-09-17	2025-09-16



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Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2025-03-21	2026-03-20
Substitution Antenna	Rohde & Schwarz	HF907	SEM003-06	2024-08-03	2025-08-02
Substitution Antenna	ETS-LINDGREN	3160-09	SEM003-12	2024-08-03	2025-08-02
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2025-03-03	2026-03-02

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity- Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity- Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Output Power Data

§2.1046, §22.913, §24.232, §27.50(b), §27.50(c), §27.50(d), Test Requirement:

§27.50(h), §27.1507(4), §90.635, §90.542(a)

Test Method: ANSI C63.26-2015. KDB 971168 D01 v03r01

ERP≤ 7W(LTE Band 5,26b) Limit:

EIRP≤ 2W(LTE Band 2,25) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12,71) EIRP = 1W(LTE Band 4, 66) EIRP≤ 2W(LTE Band 7,38,41) ERP≤ 3W(LTE Band 8) ERP≤ 100W(LTE Band 26a)

ERP≤ 30W(LTE Band 14)

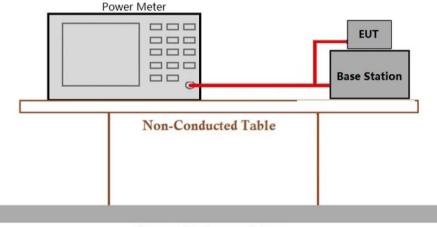
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



Ground Reference Plane

6.1.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(a), §27.50(d), §27.1507(d)

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤13dB

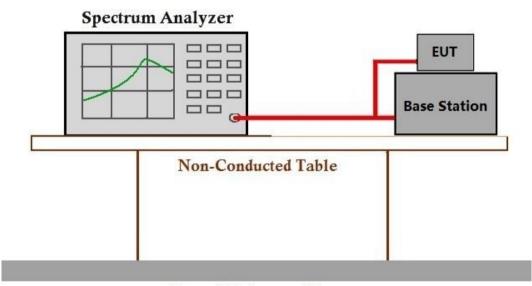
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram



Ground Reference Plane

6.2.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.3 Bandwidth

Test Requirement: §2.1049(h)

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: **OBW: No limit**

EBW: No limit

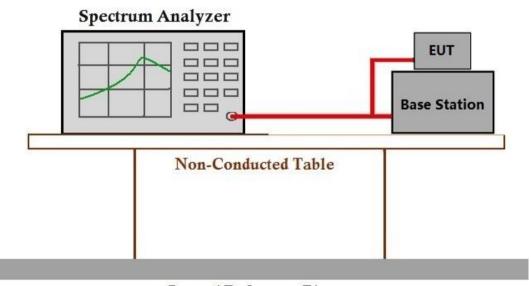
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode Keep the EUT in transmitting mode

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.4 Band Edge Compliance

§2.1051, §22.917, §24.238, §27.50(g), §27.50(h), §27.50(m), §27.53(c) Test Requirement:

§27.1509, §90.543(e), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01 \leq -13dBm (LTE Band2,4,5,8,12,25,26b,66,71) Limit:

For Band 13:

On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For Band 14:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For Band7,38,41:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For Band26a:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode



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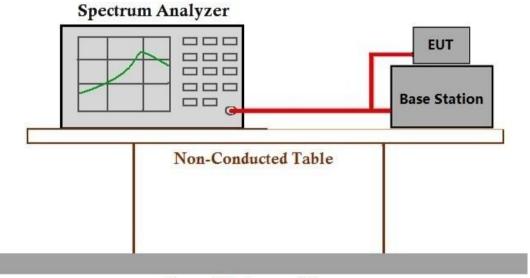
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6.4.2 Test Setup Diagram



Ground Reference Plane

6.4.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.5 Spurious emissions at antenna terminals

§2.1051, §22.917, §24.238, §27.50(g), §27.50(h), §27.50(m), §27.53(c) Test Requirement:

§27.1509, §90.543(e), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01 \leq -13dBm (LTE Band2,4,5,8,12,25,26b,66,71) Limit:

For Band 13:

On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For Band 14:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For **Band7,38,41**:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For Band26a:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode



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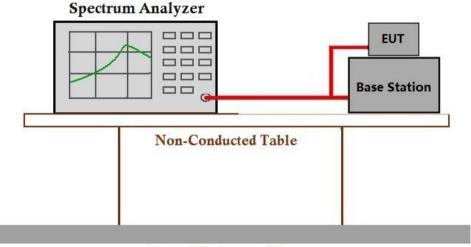
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6.5.2 Test Setup Diagram



Ground Reference Plane

6.5.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.6 Field strength of spurious radiation

§2.1051, §22.917, §24.238, §27.50(g), §27.50(h), §27.50(m), §27.53(c) Test Requirement:

§27.1509, §90.543(e), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01 \leq -13dBm (LTE Band2,4,5,8,12,25,26b,66,71) Limit:

For Band 13:

On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For Band 14:

On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz(-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For **Band7,38,41**:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For Band26a:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.



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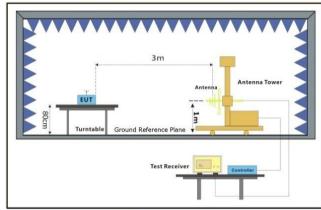
6.6.1 E.U.T. Operation

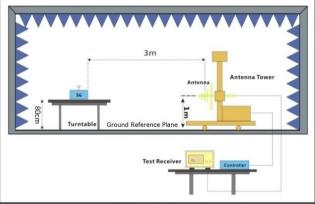
Operating Environment:

Temperature: 22.1 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

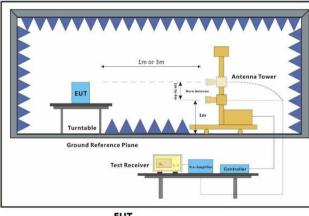
6.6.2 Test Setup Diagram

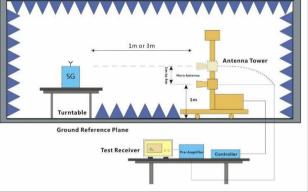




EUT

Substiute Antenna+Signal Generator





EUT

Substiute Antenna+Signal Generator



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6.6.3 Measurement Procedure and Data

Test Procedure:

- (1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4)The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6)The transmitter shall than be rotated through 360 in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7)The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11)The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15)The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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	LTE Band 2-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3702.0	-57.57	-13	-44.57	-62.43	3.58	8.44	Horizontal	Pass				
5553.0	-55.0	-13	-42.0	-60.71	4.74	10.45	Horizontal	Pass				
7404.0	-55.98	-13	-42.98	-62.66	4.94	11.62	Horizontal	Pass				
3702.0	-59.1	-13	-46.1	-63.96	3.58	8.44	Vertical	Pass				
5553.0	-53.96	-13	-40.96	-59.67	4.74	10.45	Vertical	Pass				
7404.0	-55.86	-13	-42.86	-62.54	4.94	11.62	Vertical	Pass				

	LTE Band 2-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3742.0	-59.97	-13	-46.97	-64.85	3.61	8.49	Horizontal	Pass				
5613.0	-57.13	-13	-44.13	-62.84	4.74	10.45	Horizontal	Pass				
7484.0	-58.67	-13	-45.67	-65.45	4.94	11.72	Horizontal	Pass				
3742.0	-57.78	-13	-44.78	-62.66	3.61	8.49	Vertical	Pass				
5613.0	-56.93	-13	-43.93	-62.64	4.74	10.45	Vertical	Pass				
7484.0	-56.77	-13	-43.77	-63.55	4.94	11.72	Vertical	Pass				

	LTE Band 2-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3782.0	-58.15	-13	-45.15	-63.05	3.65	8.55	Horizontal	Pass				
5673.0	-56.34	-13	-43.34	-62.04	4.75	10.45	Horizontal	Pass				
7564.0	-57.1	-13	-44.1	-63.97	4.95	11.82	Horizontal	Pass				
3782.0	-57.18	-13	-44.18	-62.08	3.65	8.55	Vertical	Pass				
5673.0	-56.52	-13	-43.52	-62.22	4.75	10.45	Vertical	Pass				
7564.0	-57.48	-13	-44.48	-64.35	4.95	11.82	Vertical	Pass				



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	LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3422.0	-58.64	-13	-45.64	-63.26	3.36	7.98	Horizontal	Pass				
5133.0	-52.68	-13	-39.68	-58.29	4.61	10.22	Horizontal	Pass				
6844.0	-55.93	-13	-42.93	-61.96	4.9	10.93	Horizontal	Pass				
3422.0	-58.99	-13	-45.99	-63.61	3.36	7.98	Vertical	Pass				
5133.0	-54.45	-13	-41.45	-60.06	4.61	10.22	Vertical	Pass				
6844.0	-57.29	-13	-44.29	-63.32	4.9	10.93	Vertical	Pass				

	LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3447.0	-57.48	-13	-44.48	-62.15	3.37	8.04	Horizontal	Pass				
5170.5	-55.38	-13	-42.38	-61.01	4.62	10.25	Horizontal	Pass				
6894.0	-56.07	-13	-43.07	-62.16	4.9	10.99	Horizontal	Pass				
3447.0	-57.29	-13	-44.29	-61.96	3.37	8.04	Vertical	Pass				
5170.5	-54.74	-13	-41.74	-60.37	4.62	10.25	Vertical	Pass				
6894.0	-55.99	-13	-42.99	-62.08	4.9	10.99	Vertical	Pass				

	LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3472.0	-58.84	-13	-45.84	-63.55	3.39	8.1	Horizontal	Pass			
5208.0	-54.87	-13	-41.87	-60.5	4.64	10.27	Horizontal	Pass			
6944.0	-57.11	-13	-44.11	-63.26	4.91	11.06	Horizontal	Pass			
3472.0	-59.49	-13	-46.49	-64.2	3.39	8.1	Vertical	Pass			
5208.0	-55.26	-13	-42.26	-60.89	4.64	10.27	Vertical	Pass			
6944.0	-55.46	-13	-42.46	-61.61	4.91	11.06	Vertical	Pass			



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	LTE Band 5-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1649.0	-63.54	-13	-50.54	-66.42	2.62	5.5	Horizontal	Pass			
2473.5	-60.13	-13	-47.13	-62.83	3.06	5.76	Horizontal	Pass			
3298.0	-58.95	-13	-45.95	-63.31	3.3	7.66	Horizontal	Pass			
1649.0	-63.79	-13	-50.79	-66.67	2.62	5.5	Vertical	Pass			
2473.5	-61.05	-13	-48.05	-63.75	3.06	5.76	Vertical	Pass			
3298.0	-58.07	-13	-45.07	-62.43	3.3	7.66	Vertical	Pass			

	LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1664.0	-62.69	-13	-49.69	-65.53	2.63	5.47	Horizontal	Pass				
2496.0	-60.53	-13	-47.53	-63.26	3.08	5.81	Horizontal	Pass				
3328.0	-56.73	-13	-43.73	-61.16	3.31	7.74	Horizontal	Pass				
1664.0	-62.36	-13	-49.36	-65.2	2.63	5.47	Vertical	Pass				
2496.0	-60.92	-13	-47.92	-63.65	3.08	5.81	Vertical	Pass				
3328.0	-57.7	-13	-44.7	-62.13	3.31	7.74	Vertical	Pass				

	LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1679.0	-62.83	-13	-49.83	-65.63	2.63	5.43	Horizontal	Pass			
2518.5	-62.35	-13	-49.35	-65.13	3.08	5.86	Horizontal	Pass			
3358.0	-58.75	-13	-45.75	-63.24	3.33	7.82	Horizontal	Pass			
1679.0	-63.87	-13	-50.87	-66.67	2.63	5.43	Vertical	Pass			
2518.5	-61.95	-13	-48.95	-64.73	3.08	5.86	Vertical	Pass			
3358.0	-59.12	-13	-46.12	-63.61	3.33	7.82	Vertical	Pass			



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	LTE Band 7-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5002.0	-53.58	-25	-28.58	-59.15	4.57	10.14	Horizontal	Pass			
7503.0	-56.29	-25	-31.29	-63.09	4.94	11.74	Horizontal	Pass			
10004.0	-55.19	-25	-30.19	-62.76	5.46	13.03	Horizontal	Pass			
5002.0	-54.28	-25	-29.28	-59.85	4.57	10.14	Vertical	Pass			
7503.0	-55.17	-25	-30.17	-61.97	4.94	11.74	Vertical	Pass			
10004.0	-54.18	-25	-29.18	-61.75	5.46	13.03	Vertical	Pass			

	LTE Band 7-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5052.0	-54.56	-25	-29.56	-60.14	4.59	10.17	Horizontal	Pass			
7578.0	-57.82	-25	-32.82	-64.7	4.95	11.83	Horizontal	Pass			
10104.0	-54.44	-25	-29.44	-62.01	5.48	13.05	Horizontal	Pass			
5052.0	-54.46	-25	-29.46	-60.04	4.59	10.17	Vertical	Pass			
7578.0	-59.01	-25	-34.01	-65.89	4.95	11.83	Vertical	Pass			
10104.0	-54.31	-25	-29.31	-61.88	5.48	13.05	Vertical	Pass			

	LTE Band 7-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5102.0	-53.6	-25	-28.6	-59.2	4.6	10.2	Horizontal	Pass			
7653.0	-56.38	-25	-31.38	-63.35	4.95	11.92	Horizontal	Pass			
10204.0	-51.58	-25	-26.58	-59.16	5.49	13.07	Horizontal	Pass			
5102.0	-54.78	-25	-29.78	-60.38	4.6	10.2	Vertical	Pass			
7653.0	-56.87	-25	-31.87	-63.84	4.95	11.92	Vertical	Pass			
10204.0	-53.29	-25	-28.29	-60.87	5.49	13.07	Vertical	Pass			



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	LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1399.0	-63.09	-13	-50.09	-65.86	2.47	5.24	Horizontal	Pass			
2098.5	-63.67	-13	-50.67	-65.74	2.79	4.86	Horizontal	Pass			
2798.0	-61.45	-13	-48.45	-64.81	3.12	6.48	Horizontal	Pass			
1399.0	-64.6	-13	-51.6	-67.37	2.47	5.24	Vertical	Pass			
2098.5	-62.18	-13	-49.18	-64.25	2.79	4.86	Vertical	Pass			
2798.0	-60.51	-13	-47.51	-63.87	3.12	6.48	Vertical	Pass			

	LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1406.0	-64.14	-13	-51.14	-66.94	2.48	5.28	Horizontal	Pass			
2109.0	-62.19	-13	-49.19	-64.27	2.8	4.88	Horizontal	Pass			
2812.0	-59.62	-13	-46.62	-63.01	3.12	6.51	Horizontal	Pass			
1406.0	-64.52	-13	-51.52	-67.32	2.48	5.28	Vertical	Pass			
2109.0	-62.92	-13	-49.92	-65.0	2.8	4.88	Vertical	Pass			
2812.0	-59.27	-13	-46.27	-62.66	3.12	6.51	Vertical	Pass			

	LTE Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1413.0	-64.26	-13	-51.26	-67.1	2.49	5.33	Horizontal	Pass			
2119.5	-63.08	-13	-50.08	-65.18	2.81	4.91	Horizontal	Pass			
2826.0	-60.75	-13	-47.75	-64.16	3.13	6.54	Horizontal	Pass			
1413.0	-64.81	-13	-51.81	-67.65	2.49	5.33	Vertical	Pass			
2119.5	-63.17	-13	-50.17	-65.27	2.81	4.91	Vertical	Pass			
2826.0	-61.65	-13	-48.65	-65.06	3.13	6.54	Vertical	Pass			



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	LTE Band 13-Middlechannel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
1555.0	-64.26	-13	-51.26	-67.4	2.6	5.74	Horizontal	Pass				
2332.5	-62.05	-13	-49.05	-64.51	2.96	5.42	Horizontal	Pass				
3110.0	-59.0	-13	-46.0	-63.0	3.2	7.2	Horizontal	Pass				
1555.0	-63.86	-13	-50.86	-67.0	2.6	5.74	Vertical	Pass				
2332.5	-64.36	-13	-51.36	-66.82	2.96	5.42	Vertical	Pass				
3110.0	-59.89	-13	-46.89	-63.89	3.2	7.2	Vertical	Pass				

	LTE Band 14-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1577.0	-63.56	-40	-23.56	-66.65	2.6	5.69	Horizontal	Pass			
2365.5	-59.55	-13	-46.55	-62.07	2.98	5.5	Horizontal	Pass			
3154.0	-57.53	-13	-44.53	-61.6	3.23	7.3	Horizontal	Pass			
1577.0	-63.55	-40	-23.55	-66.64	2.6	5.69	Vertical	Pass			
2365.5	-61.45	-13	-48.45	-63.97	2.98	5.5	Vertical	Pass			
3154.0	-57.15	-13	-44.15	-61.22	3.23	7.3	Vertical	Pass			



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	LTE Band 25-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3702.0	-58.83	-13	-45.83	-63.69	3.58	8.44	Horizontal	Pass			
5553.0	-54.9	-13	-41.9	-60.61	4.74	10.45	Horizontal	Pass			
7404.0	-54.83	-13	-41.83	-61.51	4.94	11.62	Horizontal	Pass			
3702.0	-58.38	-13	-45.38	-63.24	3.58	8.44	Vertical	Pass			
5553.0	-54.72	-13	-41.72	-60.43	4.74	10.45	Vertical	Pass			
7404.0	-55.9	-13	-42.9	-62.58	4.94	11.62	Vertical	Pass			

LTE Band 25-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3747.0	-59.32	-13	-46.32	-64.2	3.62	8.5	Horizontal	Pass		
5620.5	-54.54	-13	-41.54	-60.25	4.74	10.45	Horizontal	Pass		
7494.0	-56.48	-13	-43.48	-63.27	4.94	11.73	Horizontal	Pass		
3747.0	-58.56	-13	-45.56	-63.44	3.62	8.5	Vertical	Pass		
5620.5	-56.67	-13	-43.67	-62.38	4.74	10.45	Vertical	Pass		
7494.0	-54.64	-13	-41.64	-61.43	4.94	11.73	Vertical	Pass		

	LTE Band 25-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3792.0	-56.37	-13	-43.37	-61.27	3.66	8.56	Horizontal	Pass			
5688.0	-54.23	-13	-41.23	-59.93	4.75	10.45	Horizontal	Pass			
7584.0	-56.61	-13	-43.61	-63.5	4.95	11.84	Horizontal	Pass			
3792.0	-59.24	-13	-46.24	-64.14	3.66	8.56	Vertical	Pass			
5688.0	-56.37	-13	-43.37	-62.07	4.75	10.45	Vertical	Pass			
7584.0	-56.15	-13	-43.15	-63.04	4.95	11.84	Vertical	Pass			



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	LTE Band 26-Low channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1649.5	-62.16	-13	-49.16	-65.04	2.62	5.5	Horizontal	Pass			
2474.25	-61.37	-13	-48.37	-64.07	3.06	5.76	Horizontal	Pass			
3299.0	-58.84	-13	-45.84	-63.21	3.3	7.67	Horizontal	Pass			
1649.5	-64.84	-13	-51.84	-67.72	2.62	5.5	Vertical	Pass			
2474.25	-61.75	-13	-48.75	-64.45	3.06	5.76	Vertical	Pass			
3299.0	-57.48	-13	-44.48	-61.85	3.3	7.67	Vertical	Pass			

LTE Band 26-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
1659.5	-64.49	-13	-51.49	-67.35	2.62	5.48	Horizontal	Pass		
2489.25	-61.2	-13	-48.2	-63.92	3.07	5.79	Horizontal	Pass		
3319.0	-58.67	-13	-45.67	-63.08	3.31	7.72	Horizontal	Pass		
1659.5	-65.29	-13	-52.29	-68.15	2.62	5.48	Vertical	Pass		
2489.25	-60.42	-13	-47.42	-63.14	3.07	5.79	Vertical	Pass		
3319.0	-58.31	-13	-45.31	-62.72	3.31	7.72	Vertical	Pass		

	LTE Band 26-High channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1669.5	-66.04	-13	-53.04	-68.86	2.63	5.45	Horizontal	Pass			
2504.25	-61.82	-13	-48.82	-64.57	3.08	5.83	Horizontal	Pass			
3339.0	-59.77	-13	-46.77	-64.22	3.32	7.77	Horizontal	Pass			
1669.5	-62.83	-13	-49.83	-65.65	2.63	5.45	Vertical	Pass			
2504.25	-62.58	-13	-49.58	-65.33	3.08	5.83	Vertical	Pass			
3339.0	-58.34	-13	-45.34	-62.79	3.32	7.77	Vertical	Pass			



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	LTE Band 38-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5142.0	-54.29	-25	-29.29	-59.9	4.62	10.23	Horizontal	Pass			
7713.0	-55.68	-25	-30.68	-62.71	4.96	11.99	Horizontal	Pass			
10284.0	-53.37	-25	-28.37	-60.94	5.51	13.08	Horizontal	Pass			
5142.0	-54.31	-25	-29.31	-59.92	4.62	10.23	Vertical	Pass			
7713.0	-57.26	-25	-32.26	-64.29	4.96	11.99	Vertical	Pass			
10284.0	-55.91	-25	-30.91	-63.48	5.51	13.08	Vertical	Pass			

	LTE Band 38-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
5172.0	-56.35	-25	-31.35	-61.97	4.63	10.25	Horizontal	Pass				
7758.0	-56.68	-25	-31.68	-63.76	4.96	12.04	Horizontal	Pass				
10344.0	-54.6	-25	-29.6	-62.17	5.52	13.09	Horizontal	Pass				
5172.0	-55.6	-25	-30.6	-61.22	4.63	10.25	Vertical	Pass				
7758.0	-57.56	-25	-32.56	-64.64	4.96	12.04	Vertical	Pass				
10344.0	-54.3	-25	-29.3	-61.87	5.52	13.09	Vertical	Pass				

	LTE Band 38-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5202.0	-56.36	-25	-31.36	-62.0	4.63	10.27	Horizontal	Pass			
7803.0	-56.48	-25	-31.48	-63.62	4.96	12.1	Horizontal	Pass			
10404.0	-54.77	-25	-29.77	-62.35	5.52	13.1	Horizontal	Pass			
5202.0	-54.73	-25	-29.73	-60.37	4.63	10.27	Vertical	Pass			
7803.0	-57.44	-25	-32.44	-64.58	4.96	12.1	Vertical	Pass			
10404.0	-53.62	-25	-28.62	-61.2	5.52	13.1	Vertical	Pass			



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	LTE Band 41-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
4994.0	-54.02	-25	-29.02	-59.58	4.57	10.13	Horizontal	Pass			
7491.0	-57.34	-25	-32.34	-64.13	4.94	11.73	Horizontal	Pass			
9988.0	-55.97	-25	-30.97	-63.55	5.46	13.04	Horizontal	Pass			
4994.0	-54.53	-25	-29.53	-60.09	4.57	10.13	Vertical	Pass			
7491.0	-55.56	-25	-30.56	-62.35	4.94	11.73	Vertical	Pass			
9988.0	-54.9	-25	-29.9	-62.48	5.46	13.04	Vertical	Pass			

	LTE Band 41-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
5168.0	-55.8	-25	-30.8	-61.42	4.62	10.24	Horizontal	Pass				
7752.0	-57.3	-25	-32.3	-64.38	4.96	12.04	Horizontal	Pass				
10336.0	-55.37	-25	-30.37	-62.95	5.51	13.09	Horizontal	Pass				
5168.0	-55.91	-25	-30.91	-61.53	4.62	10.24	Vertical	Pass				
7752.0	-58.99	-25	-33.99	-66.07	4.96	12.04	Vertical	Pass				
10336.0	-53.4	-25	-28.4	-60.98	5.51	13.09	Vertical	Pass				

LTE Band 41-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
5342.0	-52.81	-25	-27.81	-58.48	4.68	10.35	Horizontal	Pass		
8013.0	-56.48	-25	-31.48	-63.85	4.98	12.35	Horizontal	Pass		
10684.0	-55.19	-25	-30.19	-62.74	5.63	13.18	Horizontal	Pass		
5342.0	-55.05	-25	-30.05	-60.72	4.68	10.35	Vertical	Pass		
8013.0	-58.11	-25	-33.11	-65.48	4.98	12.35	Vertical	Pass		
10684.0	-57.61	-25	-32.61	-65.16	5.63	13.18	Vertical	Pass		



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LTE Band 66-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3422.0	-58.23	-13	-45.23	-62.85	3.36	7.98	Horizontal	Pass		
5133.0	-55.11	-13	-42.11	-60.72	4.61	10.22	Horizontal	Pass		
6844.0	-57.99	-13	-44.99	-64.02	4.9	10.93	Horizontal	Pass		
3422.0	-58.81	-13	-45.81	-63.43	3.36	7.98	Vertical	Pass		
5133.0	-55.56	-13	-42.56	-61.17	4.61	10.22	Vertical	Pass		
6844.0	-56.68	-13	-43.68	-62.71	4.9	10.93	Vertical	Pass		

	LTE Band 66-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3472.0	-56.8	-13	-43.8	-61.51	3.39	8.1	Horizontal	Pass			
5208.0	-56.49	-13	-43.49	-62.12	4.64	10.27	Horizontal	Pass			
6944.0	-55.7	-13	-42.7	-61.85	4.91	11.06	Horizontal	Pass			
3472.0	-57.07	-13	-44.07	-61.78	3.39	8.1	Vertical	Pass			
5208.0	-55.01	-13	-42.01	-60.64	4.64	10.27	Vertical	Pass			
6944.0	-56.36	-13	-43.36	-62.51	4.91	11.06	Vertical	Pass			

LTE Band 66-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3522.0	-57.7	-13	-44.7	-62.48	3.42	8.2	Horizontal	Pass		
5283.0	-56.12	-13	-43.12	-61.78	4.66	10.32	Horizontal	Pass		
7044.0	-56.68	-13	-43.68	-62.94	4.92	11.18	Horizontal	Pass		
3522.0	-56.66	-13	-43.66	-61.44	3.42	8.2	Vertical	Pass		
5283.0	-53.74	-13	-40.74	-59.4	4.66	10.32	Vertical	Pass		
7044.0	-55.84	-13	-42.84	-62.1	4.92	11.18	Vertical	Pass		



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LTE Band 71-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
1328.0	-63.4	-13	-50.4	-65.79	2.4	4.79	Horizontal	Pass		
1992.0	-62.41	-13	-49.41	-64.33	2.72	4.64	Horizontal	Pass		
2656.0	-59.46	-13	-46.46	-62.52	3.1	6.16	Horizontal	Pass		
1328.0	-64.51	-13	-51.51	-66.9	2.4	4.79	Vertical	Pass		
1992.0	-61.6	-13	-48.6	-63.52	2.72	4.64	Vertical	Pass		
2656.0	-58.66	-13	-45.66	-61.72	3.1	6.16	Vertical	Pass		

LTE Band 71-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
1348.0	-65.72	-13	-52.72	-68.22	2.42	4.92	Horizontal	Pass		
2022.0	-63.17	-13	-50.17	-65.1	2.74	4.67	Horizontal	Pass		
2696.0	-59.18	-13	-46.18	-62.32	3.11	6.25	Horizontal	Pass		
1348.0	-65.24	-13	-52.24	-67.74	2.42	4.92	Vertical	Pass		
2022.0	-63.63	-13	-50.63	-65.56	2.74	4.67	Vertical	Pass		
2696.0	-58.85	-13	-45.85	-61.99	3.11	6.25	Vertical	Pass		

LTE Band 71-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
1358.0	-63.22	-13	-50.22	-65.77	2.43	4.98	Horizontal	Pass		
2037.0	-61.49	-13	-48.49	-63.45	2.75	4.71	Horizontal	Pass		
2716.0	-58.25	-13	-45.25	-61.44	3.11	6.3	Horizontal	Pass		
1358.0	-62.07	-13	-49.07	-64.62	2.43	4.98	Vertical	Pass		
2037.0	-60.41	-13	-47.41	-62.37	2.75	4.71	Vertical	Pass		
2716.0	-58.42	-13	-45.42	-61.61	3.11	6.3	Vertical	Pass		

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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6.7 Frequency stability

§2.1055,§22.355,§24.235,§27.54,§90.213 Test Requirement: Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ ±2.5ppm.

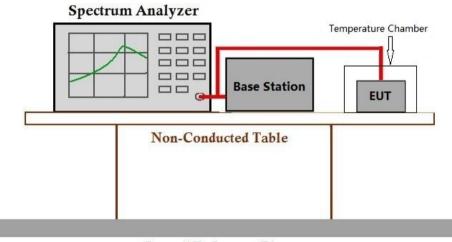
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

6.7.2 Test Setup Diagram



Ground Reference Plane

6.7.3 Measurement Data

Please refer to Appendix for LTE test data.



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7 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2507003079MO

EUT Constructional Details (EUT Photos) 8

Refer to Appendix - External and Internal Photos for SZCR2507003079MO

- End of the Report -



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